

maintain a rating of 8 than maintain a rating of 3. This is not consistent with the findings of Chen and Johnston. An example of Chen and Johnston's results are found in Table 7-8. It is believed that two factors are adversely influencing the newer data. First, there has been an increase in major maintenance by contract rather than by NCDOT crews which impacts the data. The work recorded is only for work performed by NCDOT crews and not that done by contract. Thus, some apparent increases in condition cannot be connected to a work effort. Second, Federal coding requirements for condition ratings have changed over the years. The condition ratings reflect the predominate condition state rather than the worst state. Thus, when work is done to correct a poor condition that is not predominate, no change occurs in the condition rating. Thus, there is apparent work without apparent impact on condition. Thus, the average work for rehabilitation data found by Chen and Johnston will not be changed in the COSTPARM file at this time.

Table 7-7 Average Rehabilitation Work for Concrete Decks

Rating before rehabilitation	Rating after rehabilitation						
	9	8	7	6	5	4	3
9							
8		0.0406					
7		0.0251	0.0367				
6		0.0096	0.0212	0.0328			
5		-0.0059	0.0057	0.0173	0.0289		
4		-0.0214	-0.0098	0.0018	0.0134	0.0250	
3		-0.0369	-0.0253	-0.0137	-0.0021	0.0095	0.0211